

## WEST Search History

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DATE: Sunday, February 26, 2006

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<input type="checkbox"/>	L1	clothiadin	5
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<input checked="" type="checkbox"/>	L3	abamectin	1376
<input type="checkbox"/>	L4	emamectin	772
<input type="checkbox"/>	L5	avermectin	2651
<input type="checkbox"/>	L6	emamectin adj benzoate	161
<input type="checkbox"/>	L7	l2 and l3	95
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<input type="checkbox"/>	L9	l2 and l4	95
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<input type="checkbox"/>	L11	l9 and synerg\$4	51
<input type="checkbox"/>	L12	l9 and synergis\$4	74
<input type="checkbox"/>	L13	l2 and l3	95
<input type="checkbox"/>	L14	l2 and l4	95
<input type="checkbox"/>	L15	l2 and l5	77
<input type="checkbox"/>	L16	L2 and l6	47
<input type="checkbox"/>	L17	424/405	3908
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<input type="checkbox"/>	L21	L20 and l2	6
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END OF SEARCH HISTORY

## abamectin

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**STATUS:** ISO 1750 (approved)

**IUPAC:** mixture of 80% (10E,14E,16E,22Z)-(1R,4S,5'S,6S,6'  
*R*,8*R*,12*S*,13*S*,20*R*,21*R*,24*S*)-6'-(*(S)*-sec-butyl]-21,24-dihydroxy-5',11,13,22-tetramethyl-2-oxo-(3,7,19-trioxatetracyclo[15.6.1.1<sup>4,8</sup>.0<sup>20,24</sup>]pentacosa-10,14,16,22-tetraene)-6-spiro-2'-(5',6'-dihydro-2'H-pyran)-12-yl 2,6-dideoxy-4-O-(2,6-dideoxy-3-O-methyl- $\alpha$ -L-arabino-hexopyranosyl)-3-O-methyl- $\alpha$ -L-arabino-hexopyranoside and 20% (10E,14E,16E,22Z)-(1*R*,4*S*,5'S,6*S*,6'  
*R*,8*R*,12*S*,13*S*,20*R*,21*R*,24*S*)-21,22-dihydroxy-6'-isopropyl-5',11,13,22-tetramethyl-2-oxo-(3,7,19-trioxatetracyclo[15.6.1.1<sup>4,8</sup>.0<sup>20,24</sup>]pentacosa-10,14,16,22-tetraene)-6-spiro-2'-(5',6'-dihydro-2'H-pyran)-12-yl 2,6-dideoxy-4-O-(2,6-dideoxy-3-O-methyl- $\alpha$ -L-arabino-hexopyranosyl)-3-O-methyl- $\alpha$ -L-arabino-hexopyranoside

**CAS:** avermectin B<sub>1</sub>

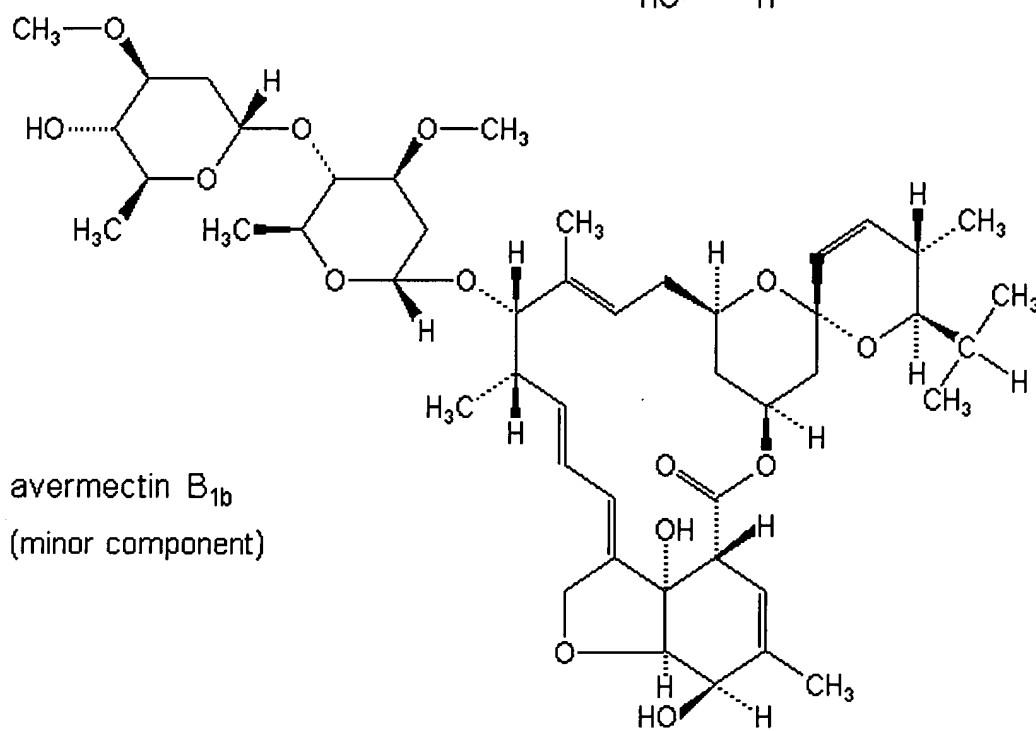
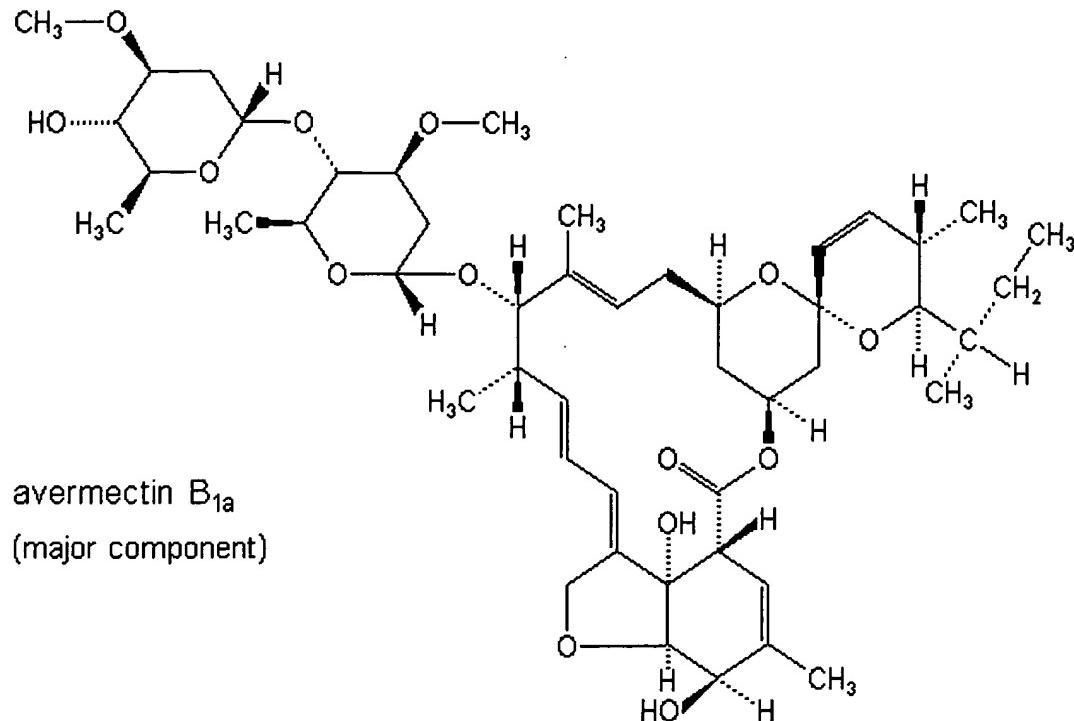
**REG. NO.:** 71751-41-2

**FORMULA:** C<sub>48</sub>H<sub>72</sub>O<sub>14</sub> (avermectin B<sub>1a</sub>) + C<sub>47</sub>H<sub>70</sub>O<sub>14</sub> (avermectin B<sub>1b</sub>)

**ACTIVITY:** acaricides (avermectin acaricides)  
insecticides (avermectin insecticides)  
nematicides (antibiotic nematicides)

**NOTES:**

**STRUCTURE:**



INCHI: avermectin B<sub>1a</sub> (6'-(S)-sec-butyl)

InChI=1/C48H72O14/c1-11-25(2)43-28(5)17-18-47(62-43)23-34-20-33(61-47)  
16-15-27(4)42(26(3)13-12-14-32-24-55-45-40(49)29(6)19-35(46(51)58-34)48  
(32,45)52)59-39-22-37(54-10)44(31(8)57-39)60-38-21-36(53-9)41(50)30(7)56-  
38/h12-15,17-19,25-26,28,30-31,33-45,49-50,52H,11,16,20-24H2,1-10H3/b13-  
12+,27-15+,32-14+/t25-,26-,28-,30-,31-,33+,34-,35-,36-,37-,38-,39-,40+,41-,42-,  
43+,44-,45+,47+,48+/m0/s1

avermectin B<sub>1b</sub> (6'-isopropyl)

InChI=1/C47H70O14/c1-24(2)41-27(5)16-17-46(61-41)22-33-19-32(60-46)15-14-26(4)42(25(3)12-11-13-31-23-54-44-39(48)28(6)18-34(45(50)57-33)47(31,44)51)58-38-21-36(53-10)43(30(8)56-38)59-37-20-35(52-9)40(49)29(7)55-37/h11-14,16-18,24-25,27,29-30,32-44,48-49,51H,15,19-23H2,1-10H3/b12-11+,26-14+,31-13+/t25-,27-,29-,30-,32+,33-,34-,35-,36-,37-,38-,39+,40-,41+,42-,43-,44+,46+,47+/m0/s1

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A data sheet from the Compendium of Pesticide Common Names

## emamectin

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**STATUS:** ISO 1750 (published)

**IUPAC:** mixture of ( $10E,14E,16E,22Z$ )-( $1R,4S,5'S,6S,6'R,8R,12S,13S,20R,21R,24S$ )- $6'$ -[(*S*)-sec-butyl]- $21,24$ -dihydroxy- $5',11,13,22$ -tetramethyl- $2$ -oxo-( $3,7,19$ -trioxatetracyclo[ $15.6.1.1^{4,8}.0^{20,24}$ ]pentacosa- $10,14,16,22$ -tetraene)- $6$ -spiro- $2'$ -( $5',6'$ -dihydro- $2'H$ -pyran)- $12$ -yl  $2,6$ -dideoxy- $3$ -O-methyl- $4$ -O-( $2,4,6$ -trideoxy- $3$ -O-methyl- $4$ -methylamino- $\alpha$ -L-lyxo-hexapyranosyl)- $\alpha$ -L-arabino-hexapyranoside and ( $10E,14E,16E,22Z$ )-( $1R,4S,5'S,6S,6'R,8R,12S,13S,20R,21R,24S$ )- $21,24$ -dihydroxy- $6'$ -isopropyl- $5',11,13,22$ -tetramethyl- $2$ -oxo-( $3,7,19$ -trioxatetracyclo[ $15.6.1.1^{4,8}.0^{20,24}$ ]pentacosa- $10,14,16,22$ -tetraene)- $6$ -spiro- $2'$ -( $5',6'$ -dihydro- $2'H$ -pyran)- $12$ -yl  $2,6$ -dideoxy- $3$ -O-methyl- $4$ -O-( $2,4,6$ -trideoxy- $3$ -O-methyl- $4$ -methylamino- $\alpha$ -L-lyxo-hexapyranosyl)- $\alpha$ -L-arabino-hexapyranoside

**CAS:** ( $4''R$ )- $4''$ -deoxy- $4''$ -(methylamino) avermectin B<sub>1</sub>

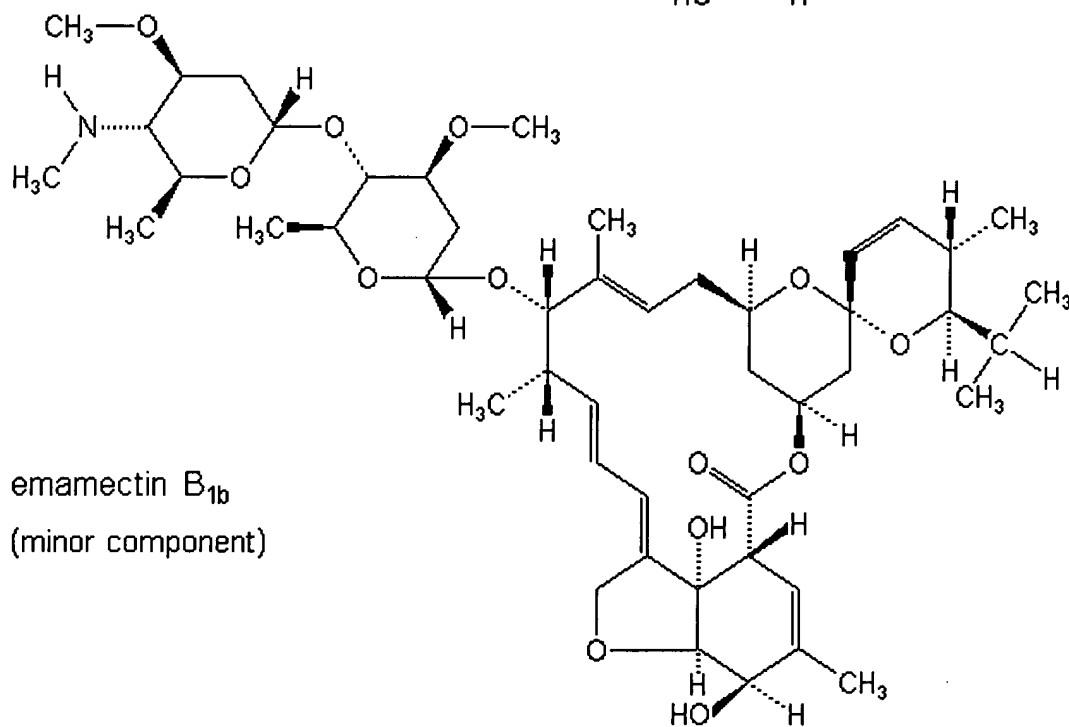
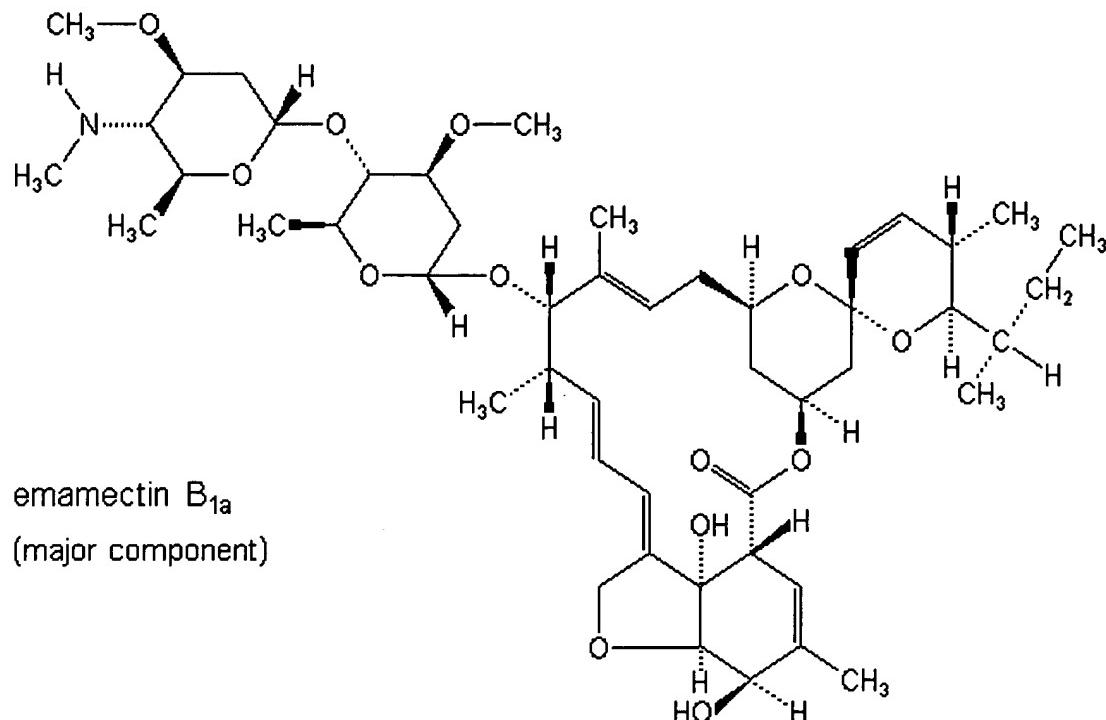
**REG. NO.:** 119791-41-2, formerly 137335-79-6

**FORMULA:** C<sub>49</sub>H<sub>75</sub>NO<sub>13</sub> (emamectin B<sub>1a</sub>) + C<sub>48</sub>H<sub>73</sub>NO<sub>13</sub> (emamectin B<sub>1b</sub>)

**ACTIVITY:** insecticides (avermectin insecticides)

**NOTES:** When this substance is used as an ester or a salt, its identity should be stated, for example emamectin benzoate [155569-91-8, formerly 137512-74-4].

**STRUCTURE:**



INCHI: emamectin B<sub>1a</sub> (6'-(S)-sec-butyl)

InChI=1/C49H75NO13/c1-12-26(2)44-29(5)18-19-48(63-44)24-35-21-34(62-48)  
17-16-28(4)43(27(3)14-13-15-33-25-56-46-42(51)30(6)20-36(47(52)59-35)49  
(33,46)53)60-40-23-38(55-11)45(32(8)58-40)61-39-22-37(54-10)41(50-9)31(7)  
57-39/h13-16,18-20,26-27,29,31-32,34-46,50-51,53H,12,17,21-25H2,1-  
11H3/b14-13+,28-16+,33-15+/t26-,27-,29-,31-,32-,34+,35-,36-,37-,38-,39-,40-  
,41-,42+,43-,44+,45-,46+,48+,49+/m0/s1

emamectin B<sub>1b</sub> (6'-isopropyl)

InChI=1/C48H73NO13/c1-25(2)42-28(5)17-18-47(62-42)23-34-20-33(61-47)16-15-27(4)43(26(3)13-12-14-32-24-55-45-41(50)29(6)19-35(46(51)58-34)48(32,45)52)59-39-22-37(54-11)44(31(8)57-39)60-38-21-36(53-10)40(49-9)30(7)56-38/h12-15,17-19,25-26,28,30-31,33-45,49-50,52H,16,20-24H2,1-11H3/b13-12+,27-15+,32-14+/t26-,28-,30-,31-,33+,34-,35-,36-,37-,38-,39-,40-,41+,42+,43-,44-,45+,47+,48+/m0/s1

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A data sheet from the Compendium of Pesticide Common Names